

AMENDMENTS TO THE CLAIMS

1. (currently amended) ~~A~~ ~~An isolated nucleic acid~~ detection reagent that is capable of detecting the presence of 1000 or more Drosophila transcripts ~~genes from Drosophila~~, wherein each of at least 1000 of said Drosophila transcripts consists of a nucleotide sequence ~~said genes are~~ selected from the group consisting of the transcript sequences of SEQ ID NOS:2, 5, 8, 11 ... 43001, 43004, 43007, sequences complementary thereto, and RNA sequences that are equivalent thereto ~~SEQ ID NOS:1, 2, 4, 5, 7, 8, 10, 11 ... 43006, and 43007.~~
2. (original) The detection reagent of claim 1, wherein said reagent is a nucleic acid array.
3. (currently amended) The array of claim 2, wherein said array is comprised of short oligonucleotides from about 5 to about 100 nucleotides in length, wherein each of said oligonucleotides is fully complementary to one of said Drosophila transcripts.
4. (currently amended) The array of claim 2, wherein said array is comprised of polynucleotides ~~based on the transcript sequences (SEQ ID NO: 2, 5, 8, 11 ... 43001, 43004, 43007), wherein said polynucleotides are~~ from about 100 to about 1000 nucleotides in length, wherein each of said polynucleotides is fully complementary to one of said Drosophila transcripts.
5. (currently amended) ~~A~~ ~~An isolated nucleic acid~~ detection reagent that is capable of detecting the presence of 2000 or more Drosophila transcripts ~~genes from Drosophila~~, wherein each of at least 2000 of said Drosophila transcripts consists of a nucleotide sequence ~~said genes are~~ selected from the group consisting of the transcript sequences of SEQ ID NOS:2, 5, 8, 11 ... 43001, 43004, 43007, sequences complementary thereto, and RNA sequences that are equivalent thereto ~~SEQ ID NOS:1, 2, 4, 5, 7, 8, 10, 11 ... 43006, and 43007.~~

6. (original) The detection reagent of claim 5, wherein said reagent is a nucleic acid array.
7. (currently amended) The array of claim 6, wherein said array is comprised of short oligonucleotides from about 5 to about 100 nucleotides in length, wherein each of said oligonucleotides is fully complementary to one of said Drosophila transcripts.
8. (currently amended) The array of claim 6, wherein said array is comprised of polynucleotides ~~based on the transcript sequences (SEQ ID NO: 2, 5, 8, 11 ... 43001, 43004, 43007), wherein said polynucleotides are~~ from about 100 to about 1000 nucleotides in length, wherein each of said polynucleotides is fully complementary to one of said Drosophila transcripts.
9. (currently amended) ~~A~~ ~~An isolated nucleic acid~~ detection reagent that is capable of detecting the presence of 5000 or more Drosophila transcripts ~~genes from Drosophila,~~ wherein each of at least 5000 of said Drosophila transcripts consists of a nucleotide sequence ~~said genes are~~ selected from the group consisting of the transcript sequences of SEQ ID NOS:2, 5, 8, 11 ... 43001, 43004, 43007, sequences complementary thereto, and RNA sequences that are equivalent thereto SEQ ID NOS:1, 2, 4, 5, 7, 8, 10, 11 ... 43006, and 43007.
10. (original) The detection reagent of claim 9, wherein said reagent is a nucleic acid array.
11. (currently amended) The array of claim 10, wherein said array is comprised of short oligonucleotides from about 5 to about 100 nucleotides in length, wherein each of said oligonucleotides is fully complementary to one of said Drosophila transcripts.

12. (currently amended) The array of claim 10, wherein said array is comprised of polynucleotides ~~based on the transcript sequences (SEQ ID NO: 2, 5, 8, 11 ... 43001, 43004, 43007), wherein said polynucleotides are~~ from about 100 to about 1000 nucleotides in length, wherein each of said polynucleotides is fully complementary to one of said Drosophila transcripts.

13. (currently amended) ~~A~~ An isolated nucleic acid detection reagent that is capable of detecting the presence of 10,000 or more Drosophila transcripts ~~genes from Drosophila~~, wherein each of at least 10,000 of said Drosophila transcripts consists of a nucleotide sequence said genes are selected from the group consisting of the transcript sequences of SEQ ID NOS:2, 5, 8, 11 ... 43001, 43004, 43007, sequences complementary thereto, and RNA sequences that are equivalent thereto SEQ ID NOS:1, 2, 4, 5, 7, 8, 10, 11 ... 43006, and 43007.

14. (original) The detection reagent of claim 13, wherein said reagent is a nucleic acid array.

15. (currently amended) The array of claim 14, wherein said array is comprised of short oligonucleotides from about 5 to about 100 nucleotides in length, wherein each of said oligonucleotides is fully complementary to one of said Drosophila transcripts.

16. (currently amended) The array of claim 15, wherein said array is comprised of polynucleotides ~~based on the transcript sequences (SEQ ID NO: 2, 5, 8, 11 ... 43001, 43004, 43007), wherein said polynucleotides are~~ from about 100 to about 1000 nucleotides in length, wherein each of said polynucleotides is fully complementary to one of said Drosophila transcripts.